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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KTR /W.No.15/2018-19

Date: 14.11.2018

TEST REPORT

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Sri. K.T. Ramesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/231/2017-18 Dated: 12.02.2018
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	390 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 14.11.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work : Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference : EE/DD/WO/231/2017-18 Dated: 12.02.2018
Date of Testing : 14.11.2018
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	120	12.00	20.40	79.6	75-100
1.18	165	16.50	36.90	63.1	55-90
600 Micron	168	16.80	53.70	46.3	35-59
300 Micron	220	22.00	75.70	24.3	8-30
150 Micron	179	17.90	93.60	6.4	0-10

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 14.11.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work : Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference : EE/DD/WO/231/2017-18 Dated: 12.02.2018
Date of Testing : 14.11.2018
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	554	3.69	3.69	96.31	95-100
20	5510	36.73	40.43	59.57	30-70
10	4780	31.87	72.29	27.71	10-35
4.75	3562	23.75	96.04	3.96	0-5

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 14.11.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work : Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference : EE/DD/WO/231/2017-18 Dated: 12.02.2018
Date of Testing : 14.11.2018
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	168	3.4	3.4	96.6	95-100
10	3365	67.3	70.7	29.3	25-55
4.75	1058	21.2	91.8	8.2	0-10

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Lab No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date: 16.11.2018

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work : Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference : EE/DD/WO/231/2017-18 Dated: 12.02.2018
No.of Sample Tested : 03
Date of Testing : 16.11.2018
Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.368	2285.62	1.64	0.960	36.50	18.59	20.08	19.27	24.09
2	50.00	84.00	0.385	2334.27	1.68	0.960	35.80	18.23	19.69	18.90	23.63
3	50.00	86.00	0.399	2362.90	1.72	0.960	36.90	18.79	20.30	19.48	24.36

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date: 16.11.2018

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	:	**Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work	:	Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	EE/DD/WO/231/2017-18 Dated: 12.02.2018
No.of Sample Tested	:	03
Date of Testing	:	16.11.2018
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.368	2285.62	1.64	0.960	36.50	18.59	20.08	19.27	24.09
2	50.00	84.00	0.385	2334.27	1.68	0.960	35.80	18.23	19.69	18.90	23.63
3	50.00	86.00	0.399	2362.90	1.72	0.960	36.90	18.79	20.30	19.48	24.36

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No: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 19.11.2018

GRADATION FOR GSB(Coarse Graded-1)
IS : 2720 (Part - 4)

: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
: **Sri. K.T. Ramesh,** Contractor, Bangalore.
: Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
: EE/DD/WO/231/2017-18 Dated: 12.02.2018
: 19.11.2018
: Mix Plant Bangalore.

Oven Dry Wt (gm) : 5000

LB – 1

eve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	-	-	-	100	100
26.5	1845	1845	36.90	63.10	55-75
4.75	2465	4310	86.20	13.80	10-30
.075	530	4840	96.80	3.20	<10

s: Satisfies MORTH Specifications as per Table 400-2, Grading I

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Ref. No: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 19.11.2018

ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)
IS : 2720 (Part - 5)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of work : Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference : EE/DD/WO/231/2017-18 Dated: 12.02.2018
Date of Testing : 19.11.2018

As per MORTH Table : 400-01

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	23.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 24.11.2018

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work : Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference : EE/DD/WO/231/2017-18 Dated: 12.02.2018
Date of Testing : 24.11.2018
Material Type : Wet Mix Macadam

Oven Dry.Wt 10500

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	415	415	4.0	96.0	95-100
22.4	3465	3880	37.0	63.0	60-80
11.2	2130	6010	57.2	42.8	40-60
4.75	1485	7495	71.4	28.6	25-40
2.36	1250	8745	83.3	16.7	15-30
0.600	784	9529	90.8	9.2	8-22
0.075	460	9989	95.1	4.9	0-8

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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date: 24.11.2018

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of the Work	Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	EE/DD/WO/231/2017-18 Dated: 12.02.2018
Type of Mix	Wet Mix macadam
Date of Testing	24.11.2018

Sl No.	Details	Trial No. 1	2	3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	89	91	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	294	294	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.83	23.24	23.64	23.24

Comments:
→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:
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Job No.: CQCE/BBMP/KTR/W.No.15/2018-19

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

24.11.2018

Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency	Sri. K.T. Ramesh, Contractor, Bangalore.
Name of Work	Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	EE/DD/WO/231/2017-18 Dated: 12.02.2018
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Sample ID	WMM Layer
Date of Testing	24.11.2018

Result : Flakiness Index = **12.65%**

Elongation Index = **13.89%**

Result : Combined Flakiness & Elongation index **26.54%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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Lab No: CQCE/BBMP/KTR/W.No.15/2018-19 Date : 24.11.2018

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

To : Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency : Sri. K.T. Ramesh, Contractor, Bangalore.
Name of Work : Improvements and Reasphalting road from NH-4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference : BE/DD/WO/231/2017-18 Dated: 12.02.2018
Date of Testing : 24.11.2018
Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Authorised Signatory

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KTR/W.No.15/2018-19 Date: 29.11.2018

TEST REPORT

Client	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	:	**Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of the work	:	Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	EE/DD/WO/231/2017-18 Dated: 12.02.2018
Source of location	:	Hot mix Plant, Bangalore
Date of testing	:	29.11.2018

The results of the tests conducted on the bitumen sample using for Bituminous Macadam

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	63	60 to 70
2	Softening point, ^{0}C	46	Min. 45
3	Ductility at 27^{0}C, cm	100 >	Min. 50
4	Flash Point, ^{0}C	288	Min. 220

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29.11.2018

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of the Work	Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	EE/DD/WO/231/2017-18 Dated: 12.02.2018
Source / Location	Hotmix Plant, Bangalore
Type of Mix	Bituminous Macadam
Date of Testing	29.11.2018

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	375	377	379	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	294	294	
4	Aggregate Impact value = percent fines	21.60	22.02	22.43	
	100* (W_2/W_1)%				22.01

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Macadam is 30%

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IAS-NRZ

Lab No.: CQCE/BBMP/KTR/W.No.15/2018-19

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

29.11.2018

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. K.T. Ramesh,** Contractor, Bangalore.
Name of Work	Improvements and Reasphalting road from NH4 to Krishnegowda Layout Raghavendra Hospital Side Road & others Model Colony Main Road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	EE/DD/WO/231/2017-18 Dated: 12.02.2018
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Bituminous Macadam
Date of Testing	29.11.2018

Result : Flakiness Index = **13.26%**

Elongation Index = **14.15%**

Result : Combined Flakiness & Elongation index **27.41%**

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